



State of Hawaii
COMMISSION ON WATER RESOURCE MANAGEMENT
Department of Land and Natural Resources
WELL COMPLETION REPORT - PART I
Well Construction

For Official Use Only:

Instructions: Please print in ink or type and send completed report (with attachments, if applicable) to the Commission on Water Resource Management, P.O. Box 621, Honolulu, Hawaii 96809. The Commission may not accept incomplete reports. This form shall be submitted within 60 days of the completion of work. For assistance, please consult the Hawaii Well Construction and Pump Installation Standards or call the Regulation Branch at **587-0225**. For updates to this form or additional information, please visit our website at <http://www.state.hi.us/dlnr/cwrm/>

1. State Well No.: _____ Well Name: _____ Island: _____
 2. Address: _____ Tax Map Key: _____
 3. Drilling Company: _____
 4. If drilled, type of Rig: ☐ Rotary ☐ Percussion
 5. Date Well Construction (drilled,cased,grouted) completed: _____ **Attach Driller's Log (7/26/99 DL Form)**
month/day/year
- In addition to the driller's log, if a geologic log was prepared, please submit with this form.*
6. Initial water-level encountered _____ ft. below ground Date and time of measurement: _____
month/day/year time
 7. Step-Drawdown Test completed? ☐ No ☐ Yes **Attach Step-Drawdown Test form (12/17/97 SDPTD Form)**
 8. Constant Rate Aquifer Test completed? ☐ No ☐ Yes **Attach Constant Rate Aquifer Test form (12/17/97 CRPTD Form)**
- Parameters prior to pump test:
9. Water-level: _____ ft. above msl Date and time of measurement: _____
month/day/year time
 10. Chloride: _____ ppm Date and time of sampling: _____
month/day/year time
 11. Temperature: _____ °F Date and time of measurement: _____
month/day/year time
12. **Fill in the as-built section on the other side of this sheet.**
 13. Attach plot plan and surveyor's stamped elevation report.
 14. If a pump is not planned to be installed, please describe (below in the remarks section) how well is secured to prevent unauthorized access (example: lockable cover, threaded coupling, etc.)
 15. Remarks: _____

Licensed Driller (print) _____ C-57 Lic. No. _____

Signature _____ Date _____

Surveyor (print) _____ L.P.L.S. Lic. No. _____

please attach stamped report

Signature _____ Date _____

Permittee (print) _____

Signature _____ Date _____

13. AS-BUILT WELL SECTION *(Please attach as-built if different from diagram provided below)*

The diagram illustrates a cross-section of a well. At the top, the 'Hole Diameter' is indicated. The 'Elevation at top of casing' is marked in feet, msl*. A 'Minimum of 2' Radius & 4" Thick Concrete Pad' is shown at the surface. The 'Ground Elevation' is also marked in feet, msl. A 'Bench mark elevation' is noted in feet, msl* (Survey to nearest 0.01 ft.). The well is filled with 'Cement Grout' (min. 70% of distance from ground elevation to top of water surface or 500 ft., whichever is less.) and 'Annular space between hole and casing (min. 3")' is specified in inches. The well is filled with 'Rock or Gravel Packing' (Material: ☐ Crushed Basalt, ☐ Rounded Gravel). The 'Water Level Elevation' is marked in feet, msl*. The 'Total Depth' is indicated in feet. The well is divided into sections: 'Solid Casing' (Length, Nominal Diameter, Wall Thickness, Bottom Elevation) and 'Open Casing' (Length, Nominal Diameter, Wall Thickness, Bottom Elevation). The 'Open Hole' section is also defined (Length, Diameter, Bottom Elevation). A note states: 'Please refer to the HAWAII WELL CONSTRUCTION AND PUMP INSTALLATION STANDARDS to ensure that your as-built is in compliance with applicable standards.'

Elevation at top of casing _____ ft., msl*
(to nearest 0.01 ft.)

Hole Diameter: _____ in.

Minimum of 2' Radius & 4" Thick Concrete Pad

Ground Elevation: _____ ft., msl

Bench mark elevation:
_____ ft., msl*
(Survey to nearest 0.01 ft.)

Cement Grout: _____ ft.
(min. 70% of distance from ground elevation to top of water surface or 500 ft., whichever is less.)

Annular space between hole and casing (min. 3"):
_____ in.

Rock or Gravel Packing:
_____ ft.
Material:
☐ Crushed Basalt
☐ Rounded Gravel

Water Level Elevation:
_____ ft. msl*

Total Depth
_____ ft.

_____ $\geq 90\% \times (\text{Ground Elev.} - \text{Water Level Elev.})$

Please refer to the
**HAWAII WELL CONSTRUCTION AND
PUMP INSTALLATION STANDARDS**
to ensure that your as-built is in compliance
with applicable standards.

Solid Casing: ($\geq 90\% \times (\text{Ground Elev.} - \text{Water Level Elev.})$)
Length: _____ ft.
Nominal Diameter: _____ in.
Wall Thickness: _____ in.
Bottom Elevation: _____ ft., msl

Open Casing: ☐ Perforated ☐ Screen
Length: _____ ft.
Nominal Diameter: _____ in.
Wall Thickness: _____ in.
Bottom Elevation: _____ ft., msl

Open Hole:
Length: _____ ft.
Diameter: _____ in.
Bottom Elevation: _____ ft., msl

*msl = mean sea level

Solid Casing Material:

Carbon Steel: compliant with (check one or more): ☐ ANSI/AWWA C200 ☐ API Spec. 5L ☐ ASTM A53 ☐ ASTM A139

And compliant with (check one or more): ☐ ASTM A242 ☐ Type E ☐ Type S ☐ Grade B ☐ Other

Stainless Steel: (check one): ☐ ASTM A409 (production wells) ☐ ASTM A312 (monitor wells)

ABS Plastic conforming to ASTM F480 and ASTM D1527: (check one) ☐ Schedule 40 ☐ Schedule 80

PVC Plastic conforming to ASTM F480 and (ASTM D1785 or ASTM D2241): (check one): ☐ Schedule 40 ☐ Schedule 80 ☐ Schedule 120

Thermoset Plastic: (check one) ☐ Filament Wound Resin Pipe conforming to ASTM D2996
☐ Centrifugally Cast Resin Pipe conforming to ASTM D2997
☐ Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517
☐ Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
☐ PTFE Fluorocarbon Tubing conforming to ASTM D3296
☐ FEP Fluorocarbon Tubing conforming to ASTM D3296

Open Casing Material:

Carbon Steel: compliant with (check one or more): ☐ ANSI/AWWA C200 ☐ API Spec. 5L ☐ ASTM A53 ☐ ASTM A139

And compliant with (check one or more): ☐ ASTM A242 ☐ Type E ☐ Type S ☐ Grade B ☐ Other

Stainless Steel: (check one): ☐ ASTM A409 (production wells) ☐ ASTM A312 (monitor wells)

ABS Plastic conforming to ASTM F480 and ASTM D1527: (check one) ☐ Schedule 40 ☐ Schedule 80

PVC Plastic conforming to ASTM F480 and (ASTM D1785 or ASTM D2241): (check one): ☐ Schedule 40 ☐ Schedule 80 ☐ Schedule 120

Thermoset Plastic: (check one) ☐ Filament Wound Resin Pipe conforming to ASTM D2996
☐ Centrifugally Cast Resin Pipe conforming to ASTM D2997
☐ Reinforced Plastic Mortar Pressure Pipe conforming to ASTM D3517
☐ Glass Fiber Reinforced Resin Pressure Pipe conforming to AWWA C950
☐ PTFE Fluorocarbon Tubing conforming to ASTM D3296
☐ FEP Fluorocarbon Tubing conforming to ASTM D3296